USER MANUAL

61301604293 Rev. A

SERIES 1975 AUTOMATIC BOTTLE FILLING SYSTEM

USER MANUAL

MLP®

SERIES 1975
AUTOMATIC BOTTLE FILLING SYSTEM

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GETINGE Castle

USER MANUAL 61301604293

Rev. A (10/31/2000)

Related Publications:

Service Data Manual 61301604052

Customer Manual—keyed to the customer's specific serial number

DESCRIPTION OF SYMBOLS & NOTES IN MANUAL

The following symbols with related notes appear in this manual.

"Warning" notes alert the user to the possibility of personal injury.

"Caution" notes alert the user to the possibility of damage to the equipment.

"Notes" alert the user to pertinent facts and conditions.

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Table of Contents

SPECIAL SAFETY INSTRUCTIONS vii
WARNINGS SUMMARY viii

Section 1 General Description

INTRODUCTION 1–1
Construction 1–2
Standard Features 1–2
Optional Standards and Codes 1–2
Optional Features 1–3
Accessory 1–3
STANDARD FEATURES 1–3
All Stainless Steel Construction 1–3
Control Panel 1–3
Stainless Steel Transport Cart 1–3
Filling Head System 1–3
ACCESSORY 1–4
Additional Transport Carts 1–4

Section 2 The Control Panel

INTRODUCTION 2–1
CONTROLS 2–2
Control Panel 2–2
Switches 2–2
Indicator 2–3
Cycle Programming 2–3

Section 3 Operating Instructions

GENERAL MACHINE OPERATION 3–1
DAILY CHECKLIST 3–1
USING THE BOTTLE FILLER 3–3
Prepare 3–3
Fill the Bottles 3–3
Remove the Cart 3–3
SETTING THE TIMER 3–4
Adjusting the Fill Time
(units with proportioner) 3–4
Setting The Fill Timer
(option—units without proportioner) 3–5

END OF DAILY OPERATION 3–6
EDSTROM BOTTLE FILLING PROPORTIONER SYSTEM
(Option) 3–7
Operating Instructions 3–7
EMERGENCY OPERATION 3–8
Emergency Shutdown 3–8

Section 4 Maintenance

GENERAL MAINTENANCE SCHEDULE 4–1
ROUTINE MAINTENANCE SCHEDULE—STANDARD . . 4–2
When Required 4–2
Daily. 4–2
Every Six Months. 4–2
RECOMMENDED SPARE PARTS LIST 4–3
Consumable Stock 4–3
Recommended Spare Parts 4–3

Section 5 Troubleshooting

Section 6 Installation Instructions

INSTALLATION OPTIONS 6–1
UNCRATING & EQUIPMENT INSPECTION. 6–1
INSTALLATION/ASSEMBLY CHECKLIST 6–2
Equipment Location. 6–2
Utilities. 6–2
Electrical 6–2
START-UP. 6–3
CHECK-OUT 6–3
TECHNICAL DATA 6–4

Section 7 Options

INTRODUCTION 7–1
MOST COMMON OPTIONS 7–1
Water Pressure Reducing Station 7–1
Bottle Filling Proportioner System 7–1
Water Pressure Gauges 7–2
Freight to Job Site 7–2
Stainless Steel Type 304 Components 7–2
Stainless Steel Type 316L Components 7–2
pH Monitor System 7–2
Selectable Head Filling 7–2
Selectable Filling Water Types 7–2
Selectable Bottle Types 7–2

Index

SPECIAL SAFETY INSTRUCTIONS

THE FOLLOWING SAFETY INSTRUCTIONS APPEAR WITHIN THIS MANUAL. READ THEM CAREFULLY BEFORE OPERATING THE UNIT.

"Warning" notes alert the user to the possibility of personal injury.

Warnings Summary **p. viii**

FALL HAZARD: Areas located immediately around the filler may become a fall hazard due to water dripping from the plumbing components. For a safe environment, insure floor is kept clean and dry.

SHOCK HAZARD: Prior to any service or maintenance on the bottle filler, all utilities should be disconnected and the lockout/tagout procedures should be followed to insure safety and prevent accidental shock.

PERSONAL HAZARD AND EQUIPMENT DAMAGE: Safe and efficient operation of this equipment requires scheduled preventative maintenance. Routine adjustments and replacement of parts by other than authorized service technicians may cause personal injury or the equipment to perform less than its capabilities.

Emergency Operation **p. 3-6**

The Control Panel ON/OFF Switch turns the power OFF to the controls only; it does not remove all power from the filler.

Routine Maintenance Schedule-Standard **p. 4-2**

ELECTRIC SHOCK HAZARD: Only an electrician should perform this test!

WARNINGS SUMMARY

SPECIAL SAFETY INSTRUCTIONS FOLLOW .

READ THEM CAREFULLY BEFORE OPERATING THE UNIT, AND FOLLOW THE INSTRUCTIONS.

- **FALL HAZARD:** *Areas located immediately around the filler may become a fall hazard due to water dripping from the plumbing components. For a safe environment, insure floor is kept clean and dry.*

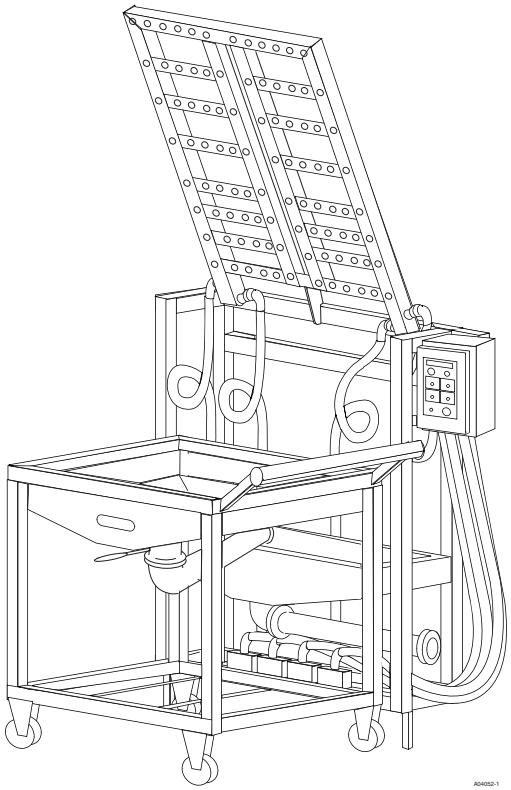
- **SHOCK HAZARD***: Prior to any service or maintenance on the bottle filler, all utilities should be disconnected and the lockout/tagout procedures should be followed to insure safety and prevent accidental shock.*

- **PERSONAL HAZARD AND EQUIPMENT DAMAGE***: Safe and efficient operation of this equipment requires scheduled preventative maintenance. Routine adjustments and replacement of parts by other than authorized service technicians may cause personal injury or the equipment to perform less than its capabilities.*

Section 1 General Description

INTRODUCTION

Figure 1–1. 1975 FEEDER BOTTLE FILLER



The 1975 Series units are automatic, food grade, filling systems used to transport and fill feeder bottles mounted in stainless steel baskets. The filling header and transport cart can be adapted to various types of bottles and configurations.

See Table 1–1 for the 1975 SERIES FEEDER BOTTLE FILLERS size specifications.

Models and dimensions are listed in Table 1–1.

Table 1–1. 1975 SERIES FEEDER BOTTLE FILLERS

SIZE (W in. X. H in. X. L in. [cm])					
MODEL	BASKET SIZE (in. [cm])	NUMBER OF BASKETS	OVERALL MACHINE SIZE (in. [cm])		OVERALL CART SIZE (in. [cm])
			With Header in Down Position	With Header in Up-Right Position	
1975 4x6	12½ x 13.5 x18.5 [31.8 x 34.3 x 47]	4	37 x 59 x 60 [94 x 150 x 152.4] without Cart	12 x 85 x 60 [30.5 x 216 x152.4] without Cart	28 x 42 x 40 [71x106.7x101.6]
1975 5x5	17 x 12 x 17 [43.1x30.5x43.1]	4	46 x 59 x 60 [116.8x150x152.4] without Cart	12 x 95 x 60 [30.5x249x152.4] without Cart	37.5x42x37.5 [95.2x106.7x95.2]

Construction

PROCESSING SYSTEM

The system consists of the fill header, sanitary filling system when stainless steel is specified, an autoclaveable transport cart, and an electrical control system.

ELECTRICAL CONTROL SYSTEM

The processing systems consists of a main electrical power panel. The panel is connected to the electrical supply, within the building, and contains all components required to operate and power the total processing system. The operator control terminal, contains all control functions necessary for the operator to easily operate and monitor the process.

Standard Features

- All Stainless Steel Construction
- Automatic Operation — Including a timer, a solenoid valve, and a stainless steel enclosure complete with a control panel to regulate the filling time and rate.
- Stainless Steel Transport Cart
- Filling Head System

Optional Standards and Codes

Bottle fillers can meet the applicable requirements of:

- UL standards — Main Control Panel is fully inspected and labeled in accordance with UL standards.
- Seismic requirements per California Administrative Code

Optional Features

For additional information about the following optional features, see “Options” on page 7-1.

- Water Pressure Reducing Station
- Bottle Filling Proportioner System
- Water Pressure Gauges
- Stainless Steel Type 304 Components
- Stainless Steel Type 316L Components
- pH Monitor System
- Selectable Head Filling
- Selectable Filling Water Types
- Selectable Bottle Types

Accessory

- Additional Transport Carts

STANDARD FEATURES

All Stainless Steel Construction

The fill header and transport cart is fabricated from 304 stainless steel for use with acidified drinking water. Type 316 stainless steel can be provided on the Series 1975 model.

Control Panel

The filler is equipped with a control panel that monitors and controls the filling sequence. The system is activated by the transport cart when it is moved into the filling position.

Stainless Steel Transport Cart

The system is supplied with one (1) transport cart fabricated from 304 stainless steel. The cart is equipped with a removable wire basket for holding and processing stoppers and sipper tubes through a tunnel or batch type washer. Located below the bottle baskets is a splash drain pan that collects any water run off from the baskets during the filling process. The cart discharges the water run off into a collection pan on the filler. The cart collection pan is equipped with a manual shutoff to eliminate water dripping onto the floor during transporting. The cart is supplied with four (4) stainless steel autoclaveable casters, two (2) with brakes. Additional carts are available.

Filling Head System

The header system and control panel are mounted on the wash room wall. A stainless steel guard is supplied to protect the header and its components when in the upright (non-filling) position. The header system can be lowered for filling and raised out of the way when inserting the stoppers. Safety systems are in place to stop filling if the cart is moved from the filling position or if the header is raised to the upright position. The header is supplied with brass jets and fill piping. Stainless steel jets and fill piping are available.

ACCESSORY

Additional Transport Carts

Stainless steel transport carts are provided to transport baskets to and from the filler. The transport cart interfaces with the filler opening to permit easy transfer of baskets into and out of the filler.

Transport cart sizes include:

Model	Width (in.)	Height (in.)	Length (in.)
4 x 6	28	42	40
5 x 5	37.5	42	37.5

Section 2 The Control Panel

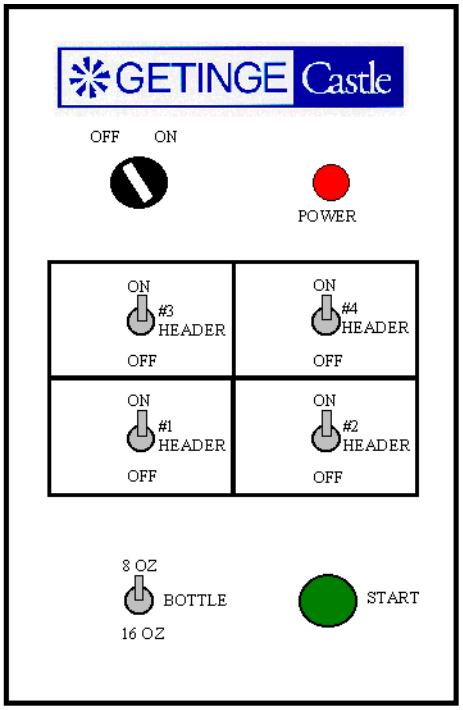
INTRODUCTION

The Control Panel on this Washer provides the operator with an interface linked to the Programmable Logic Controller (PLC) located in the Control Box. Using this panel, the operator is able to:

- Power the equipment ‘ON’ and “OFF”
- Select the header configuration for a fill cycle
- Select a fill cycle for eight- or sixteen-ounce bottles
- Start a processing cycle

CONTROLS

Control Panel



Switches

ON/OFF (controls only — does not disconnect equipment from AC voltage)

To operate the bottle filler, set ON/OFF to ON.

#1–#4 HEADER ON/OFF

Before pressing START, set each switch to ON to fill the bottles in its respective basket location (see “Cycle Programming” on page 2–3).

BOTTLE Size Selector

NOTE

All bottles must be the same size.

Set the switch to “8 OZ” position to fill 8 oz. bottles or to “16 OZ” to fill 16 oz. bottles.

START

Press START to start the filling cycle.

Cold Water/Processed Water (Option, not shown)

When cold water or processed water is required in the bottles, set the switch to COLD WATER or PROCESSED WATER.

Indicator

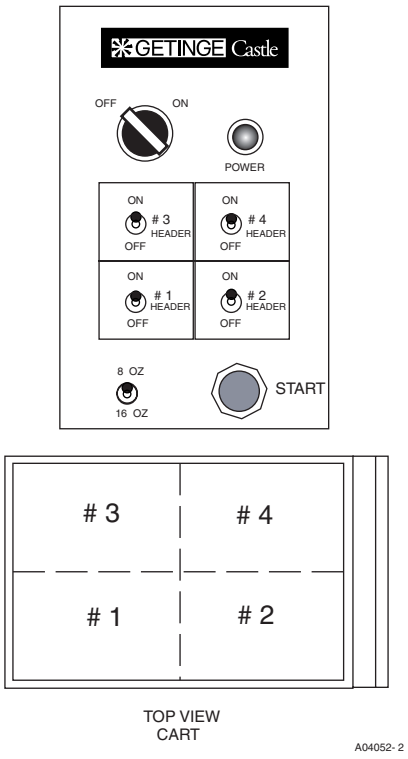
POWER

A white bezel power lamp is lit when power is supplied to the Control Panel.

Cycle Programming

It is important to know which headers to activate in order to fill the bottles as they are arranged on the cart.

On the control panel the #1–#4 HEADER ON/OFF switches control header #1, #2, #3, and #4. These switches activate sections of the header which correspond to the areas of the cart shown below.



Section 3 Operating Instructions

GENERAL MACHINE OPERATION

The operator places up to four baskets on the transport cart. The stoppers are removed and set aside, typically on the lower cart tray.

Before moving the cart into position, the operator makes two decisions:

The operator decides	and then he selects
The number of baskets containing bottles to be filled	one, two, three, or four headers
The size of bottles to be filled	8 OZ or 16 OZ

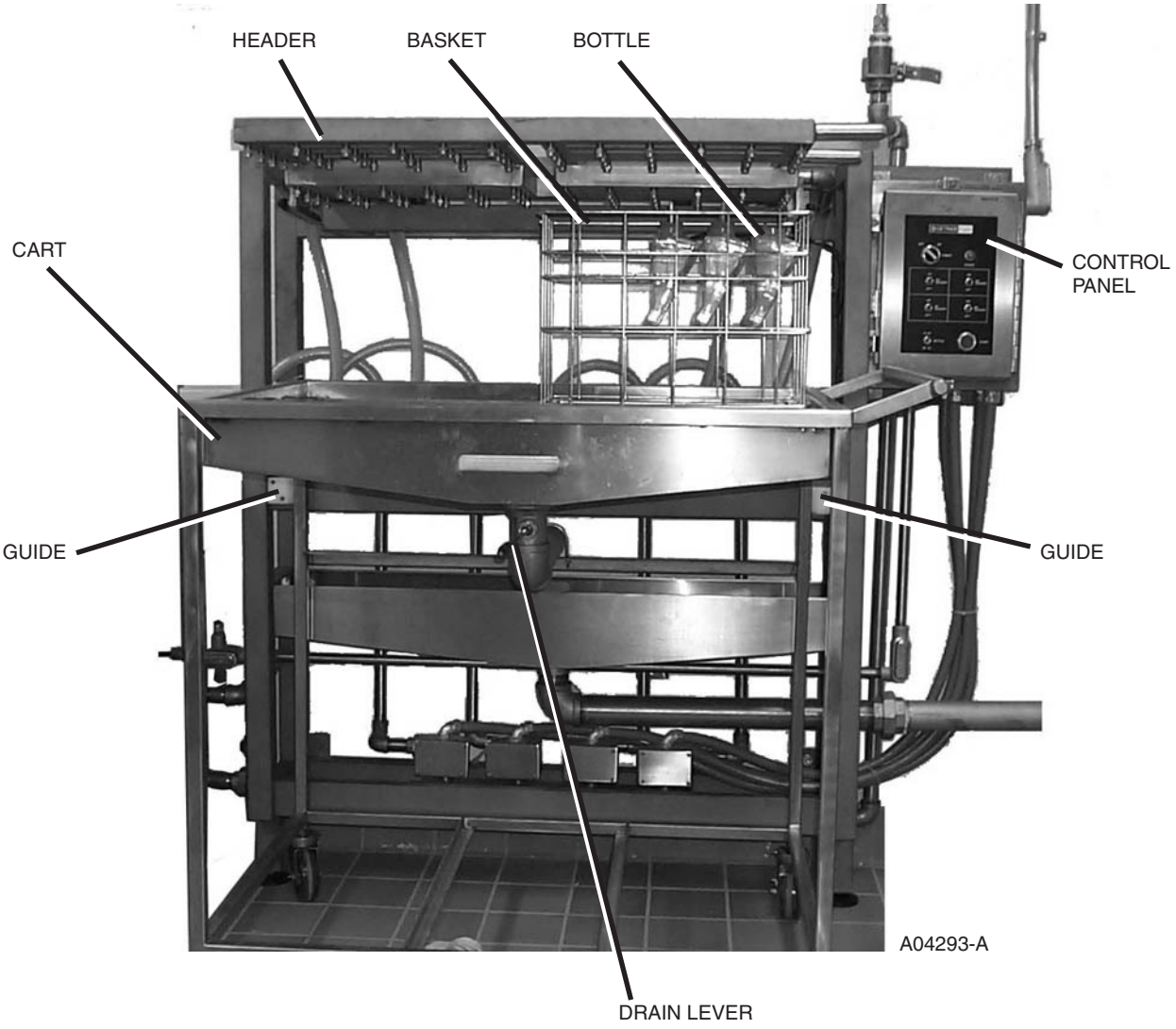
The operator positions the cart, lowers the header, and presses START. The bottle filler fills the bottles with water. The operator then raises the header to replace the stoppers into the bottles. The operator uses the cart to move the bottles to the animal rooms.

DAILY CHECKLIST

To prepare the bottle filler for daily operation, do the following at the beginning of the day:

1. Check that the water line is supplying water to the bottle filler.
2. Apply power to the bottle filler from the main circuit breaker box.

BOTTLE FILLER COMPONENTS



USING THE BOTTLE FILLER

Prepare

1. Energize the bottle filler.
   - Set ON/OFF to ON.
   - POWER lights.
2. Be sure the timer is set properly (see “Setting the Timer” on page 3–4).
3. Select the number of baskets to be filled. To do this, turn ON the applicable ON/OFF switches for HEADER #1–HEADER #4.
4. Set BOTTLE either to 8-oz. or 16-oz.
5. Load the bottles into the baskets. Then load the baskets into the cart.

Fill the Bottles

1. Place the cart between the two guides on the bottle filler.
2. Set the cart drain lever to DOWN.
   - This permits the water to drain from the cart if the bottles are filled and the water continues to flow.

NOTE▶

This occurs if the user sets the BOTTLE switch to “16 oz. BOTTLE”, but fills 8-oz. bottles.

3. Lower the header.
4. Press START.
   - The bottle filler automatically fills the bottles.

Remove the Cart

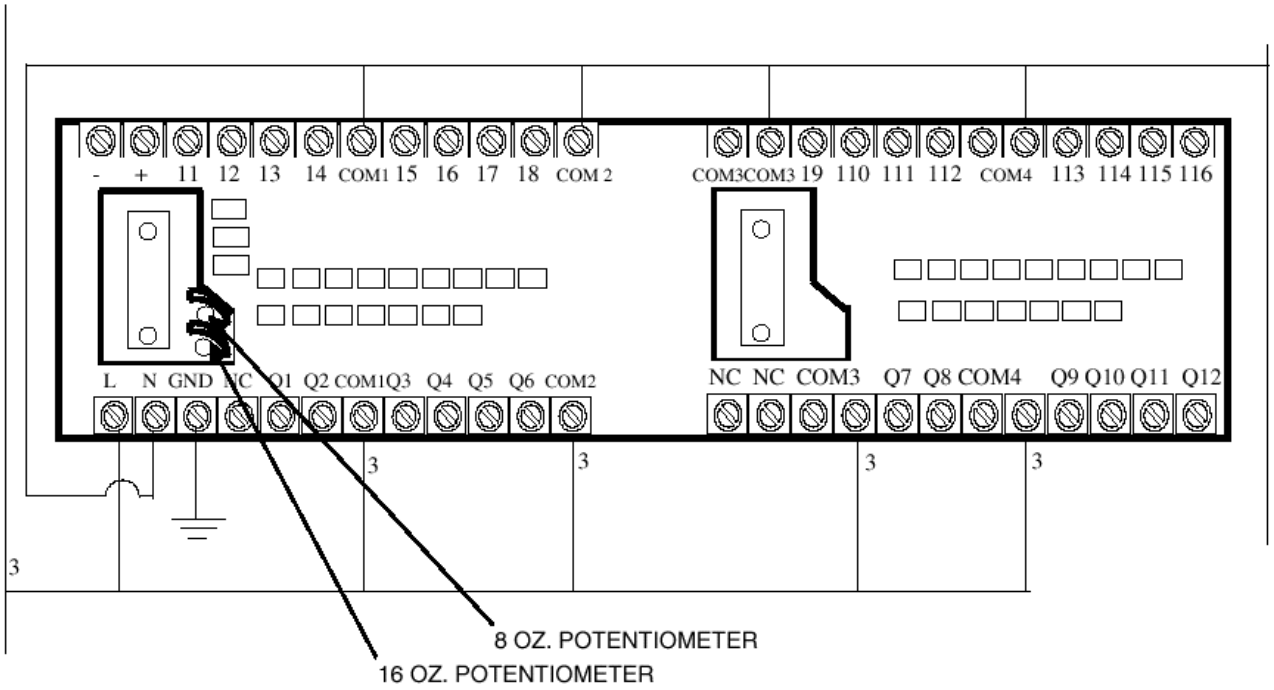
1. After the bottles are filled, set the cart drain lever to UP.
   - This prevents any water in the cart from being released onto the floor when the cart is removed from the bottle filler.
2. Raise the header.
3. Move the cart to the animal room.

SETTING THE TIMER

If your bottle filler uses a proportioner, the fill time is adjusted in the control box. To adjust the fill time, see “Adjusting the Fill Time (units with proportioner)” below.

If your bottle filler does not use a proportioner, the fill timer is on the control panel. To set this timer, see “Setting The Fill Timer (option—units without proportioner)” on page 3–5.

Adjusting the Fill Time (units with proportioner)


- + 11 12 13 14 COM1 15 16 17 18 COM 2
COM3COM3 19 110 111 112 COM4 113 114 115 116
L N GND NC Q1 Q2 COM1Q3 Q4 Q5 Q6 COM2
NC NC COM3 Q7 Q8 COM4 Q9 Q10 Q11 Q12
3
8 OZ. POTENTIOMETER
16 OZ. POTENTIOMETER

Automatic fill time is set at the factory and controlled by the electronic controls. To adjust the automatic fill time:

1. Open the door of the control box.
2. Adjust according to the chart:

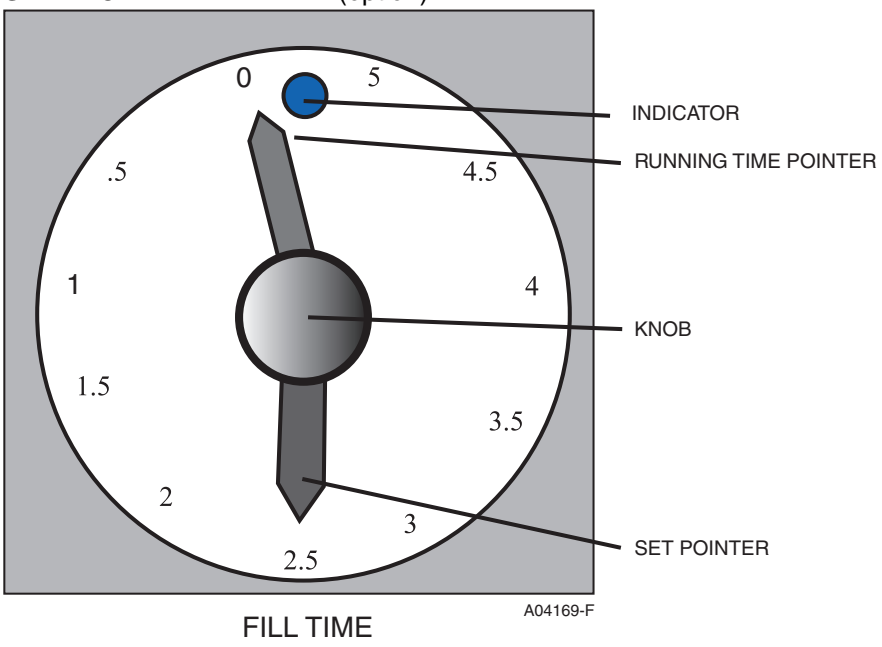
For this bottle size	Turn this potentiometer	To increase, turn	To decrease, turn
8 OZ	TOP	Clockwise (CW)	Counterclockwise (CCW)
16 OZ	BOTTOM	Clockwise (CW)	Counterclockwise (CCW)

Setting The Fill Timer (option—units without proportioner)

If your bottle filler has a fill timer and the setting is not correct, set it as follows.

FILL TIMER CONTROLS

SETTING THE FILL TIMER (option)



FILL TIME

Set Pointer

Sets the period during which bottles are filled.

Knob

Moves the set pointer to the desired fill time.

Indicator

Lights when the timer is running

Running Time Pointer

Shows the actual fill time remaining during a fill.

USING THE FILL TIMER

1. Turn the knob until the set pointer indicates the desired fill time.
2. When the timer starts:
   - The indicator lights.
   - The bottle filler begins to fill.
   - The running time pointer counts down from under the set pointer to “0”.
   - The indicator goes out.
   - The bottle filler stops filling.
3. The running time pointer stays at “0” until the operator removes the cage(s). It then resets to the time set in step 1.

NOTE

The set pointer designates the setpoint and the running time pointer moves with the timing count when the timer is activated.

END OF DAILY OPERATION

At the end of the day:

1. Turn off power to the bottle filler at the main circuit breaker box.
2. Turn off the water supply using the shutoff valve.

EDSTROM BOTTLE FILLING PROPORTIONER SYSTEM (OPTION)

The information here includes the operating instructions for the Edstrom Industries, Inc., BOTTLE FILLING PROPORTIONER. The option is described in “Bottle Filling Proportioner System” on page 7–1 of this manual. For additional information, refer to the *Bottle Filling Proportioner* Operation Manual packed with the Edstrom Industries, Inc., BOTTLE FILLING PROPORTIONER.

Operating Instructions

READY MODE

When the controller display reads “READY”, the bottle filler is ready to fill a rack of bottles according to the following procedure:

1. Position the bottle basket in the fill area.
2. Press the FILL/PURGE button. Water begins to flow and fill the bottles.
3. When the water stops flowing, the controller displays “READY” for the next fill cycle.

STAND-BY MODE

If the bottle filling proportioner is idle for more than 5 minutes or if the user changes the selection from plain to treated water, or vice versa, the controller will go into STANDBY mode.

STAND-BY MODE TO READY MODE

To go from STAND-BY mode to READY mode, the unit must be purged. To initiate a purge cycle, press the FILL/PURGE button without a bottle basket in place. A preset amount of water will flow to ensure consistent, fresh water treatment.

To exit the STANDBY mode and enter the READY mode, do the following:

1. Press the FILL/PURGE button. The prompt “PURGE?” displays.
2. Remove any bottle baskets from the fill area.
3. Press the FILL/PURGE button again. Water will flow for a preset length of time.
4. The prompt “READY” displays.
   The unit is ready to fill a basket of bottles

EMERGENCY OPERATION

Emergency Shutdown

In an emergency, it may be necessary to remove electrical power from the filler or to turn off the water supply. All operators should know the location of the main circuit breaker to disconnect the main electrical power and the water supply shutoff valve at the filler site. Follow the procedure below.

The Control Panel ON/OFF Switch turns the power OFF to the controls only; it does not remove all power from the filler.

1. Turn off power to the bottle filler at the main circuit breaker box.
2. Turn off the water supply using the shutoff valve.

Section 4 Maintenance

GENERAL MAINTENANCE SCHEDULE

PERFORMANCE ASSURANCE PLAN

Preventive maintenance performed by factory-trained service representatives, using authorized parts and service techniques, is recommended. Recognizing symptoms of potential trouble and making corrections immediately is less costly and time consuming than repairing damaged equipment. Our Performance Assurance Plan offers scientific maintenance, not merely repair service.

For quality service on this equipment and information on our Performance Assurance Plan, contact Getinge/Castle, Inc. 1777 East Henrietta Road, Rochester, NY 14623-3133 or call 1-800-950-9912.

The customer is responsible for the following maintenance items at the intervals specified. Optional items may require additional maintenance. See your Customer Manual for this information.

Table 4–1. Maintenance Schedule—Standard

MAINTENANCE ITEM	INTERVAL	SEE PAGE
• ADJUST THE FILL TIME	WHEN REQUIRED	4-2
• CLEAN SPRAY JETS AND HEADERS • HOSES	DAILY	4-2 4-2
• CHECK GFI SENSOR	EVERY SIX MONTHS	4-2

ROUTINE MAINTENANCE SCHEDULE—STANDARD

When Required

ADJUST THE FILL TIME

On the Model 1975, adjust the fill time of the 8 oz. and 16 oz. bottles. See "EDSTROM BOTTLE FILLING PROPORTIONER SYSTEM (Option)" on page 3-7.

Daily

CLEAN SPRAY JETS AND HEADERS

1. Inspect jets for debris.
2. Push the debris through the jet and into the header with a small wire.
3. If necessary, remove the spray jets from the spray header.
4. Replace the spray jets.

HOSES

1. Check for loose clamps.
2. Check for condition of hose.

Every Six Months

CHECK GFI SENSOR

ELECTRIC SHOCK HAZARD: Only an electrician should perform this test!

1. Turn on power to the machine.
2. Carefully, press the test button on the GFI (located in the control panel).
3. Power to the Control Panel should go off.
4. Carefully, press reset.
5. Power to the Control Panel should come back on.

RECOMMENDED SPARE PARTS LIST

Consumable Stock

DESCRIPTION	PART NO.
Lustre Stainless Steel Cleaner/Polish (18 oz.)	61301600026

Recommended Spare Parts

Recommended spare parts for the 1975 Bottle Fillers are listed in Table 4–2. Recommended Spare Parts for the Transport Carts are listed in Table 4–3. Manufacturers and other part numbers may be found in the replacement parts list for each model.

NOTE

See the Customer Manual for a list of replacement parts for the 1975 Bottle Filler.

See the Electrical and piping schematics in the Customer Manual for each model.

Table 4–2. 1975 BOTTLE FILLER

PART NO.	DESCRIPTION
P0011244	VALVE, WATER SOLENOID
P0011311	BALL VALVE, STAINLESS STEEL
P0011487	PROTECTIVE BUMPER
P0013903	GAS SPRING BALL STUD
P0013906	GAS SPRING, FILLER
P0020003	BULB, Sun Ray #155 PSB
P0020006	LIGHT LENS, WHITE
P0020202	SWITCH AND MAGNET, 1/60/120 VOLT
P0020241	TOGGLE SWITCH McGill #90-0001
P0020250	PUSH BUTTON
P0020476	SAFETY INTERLOCK SWITCH MAGNET

Table 4–3. CART ASSEMBLY, BASKET

PART NO.	DESCRIPTION
P0013802	CASTER, SWIVEL, 4 IN. DIA, SST
P0013803	CASTER, SWIVEL, WITH BRAKE, 4 IN. DIA, SST
P0013905	LEVER, WASTE, SINK DRAIN FMP #10

Section 5 Troubleshooting

PROBLEM	PROBABLE CAUSE	CORRECTION
No power to the Control Panel.	1. The power supply to the bottle filler is disconnected. 2. The control panel ON/OFF switch is OFF. 3. The fuse (1 AMP) is defective (Models 1911, 1914, and 1975S). 4. The circuit breaker, CB-1, has tripped (Model 1975). 5. The Ground Fault Interrupt (GFI) has tripped. 6. The control panel ON/OFF switch is defective.	1. Reset the power supply circuit breaker. 2. Turn the switch ON. 3. Replace the fuse. 4. Reset the circuit breaker. 5. Reset the GFI. 6. Notify service.
POWER light not lit.	The power light is defective.	Replace the power lamp.
Bottle Filler does not start when the START Switch is pressed.	1. The header is not in the down position. 2. The cart is not in the fill position. 3. The start switch is defective. 4. The fill timer is defective (option). 5. The reed switch (sensing the header in the down position or the cart in the fill position) is defective.	1. Place the header in the down position. 2. Place the cart in the fill position. 3. Notify service. 4. Notify service. 5. Align or replace the reed switch.
Insufficient water fill.	1. Timer is set too low. 2. Shut-off valve is not fully open. 3. Solenoid water valve is defective. 4. The water line is leaking. 5. The pump is defective. 6. The water supply pressure has failure.	1. Reset the timer. 2. Adjust the shut-off valve. 3. Rebuild/Repair the solenoid water valve. 4. Repair the water line leak. 5. Notify service. 6. Repair the water supply problem.
Uneven water fill.	One or more jets are clogged.	Clean the jet(s).

PROBLEM	PROBABLE CAUSE	CORRECTION
No water.	1. Fill timer is set at “0”. 2. The water supply is shut off. 3. The solenoid valve is defective.	1. Reset the timer. 2. Open the water supply shut-off valve. 3. Repair/Replace the solenoid valve.
Excessive water fill.	1. The timer is set too high. 2. The bottle switch is set to 16 oz. position, but filling 8 oz. bottles. 3. Incoming water pressure is too high. 4. The solenoid valve is defective.	1. Reset the timer. 2. Set the bottle switch to the 8 oz. position. 3. Lower water pressure. 4. Repair/Replace the solenoid valve.
Water does not shut off completely.	The solenoid valve is defective.	Repair/replace the solenoid valve.
Reservoir tank not draining properly.	The drain is clogged.	Clear the drain.
Water does not fill in the selected header position.	The header switch is defective.	Replace the header switch.
Bottle filler underfills bottles.	The jets are dirty.	Check the jets. Clean as necessary.

Section 6 Installation Instructions

INSTALLATION OPTIONS

- Freight to job site.
- Unload, uncrate, and installation by Getinge/Castle Installation Specialists.
- Supervision of installation by Getinge/Castle Installation Specialists.
- Connection to utilities

UNCRATING & EQUIPMENT INSPECTION

Before signing the Bill of Lading and accepting the equipment, inspect the outside of the crates for any visible damage. If any damage has occurred, note it on the Bill of Lading.

After accepting the equipment, if any visible damage is apparent notify the carrier's insurance and process a claim. At this point it is good practice to take pictures of the crate to back up the claim if internal damage has occurred.

Move the crate(s) to the general area where the machine will be set in place. Uncrate the outside of the machine and inspect the contents of the equipment. If damage is apparent, take pictures of the areas.

Upon completion of the inspection process, place the machine in the spot where the equipment will be connected to the facility's services. Using the room layout print, place the base of the equipment as noted on the print. Make sure that the location of the equipment has at least a 30" clearance around the machine control panel for general maintenance.

Installation should be performed by qualified Service Technicians only.

INSTALLATION/ASSEMBLY CHECKLIST

Once your machine has been inspected for damage and properly uncrated, you are now ready to install the equipment. Installation should be performed by qualified Service Technicians only. The following should be performed before notifying your installation contractor to insure the smooth installation of your equipment.

Equipment Location

- ❑ Crates are in the room.
- ❑ Clear access is available for installation personnel.
- ❑ Lighting and AC electrical power is present within 25 feet of the installation area.
- ❑ Heating and air conditioning is available in the installation area.
- ❑ The floor has been coated/painted under the unit, if applicable.
- ❑ Check that the frame weldment is secured to a supportive wall.

Utilities

Check to ensure that the following utility requirements are as follows:

- ❑ Any special application water is supplied at specific pressure as on the equipment drawings.
- ❑ Water line is supplied with a shutoff valve as specified on the euipment drawings.
- ❑ Water drains are connected as specified on the equipment drawings.

Electrical

- ❑ Ensure the equipment is provided with a fused disconnect switch located within 10-15 feet from the Control Panel.
- ❑ Verify the electrical supply voltage is as specified on the equipment drawings and as noted on the nameplate of the filler.

START-UP

To ensure proper machine start-up, follow these steps:

1. Ensure that all utilities are properly connected to their respective filler connections and tightened.
2. Check that the water line is supplying water to the bottle filler.
3. Apply power to the bottle filler from the Main Circuit Breaker box.
4. Operate the bottle filler by following the instructions in “USING THE BOTTLE FILLER” on page 3–3.
5. Verify that the flow rates are adjusted to fully fill the 8 oz. and 16 oz. bottles. See “EDSTROM BOTTLE FILLING PROPORTIONER SYSTEM (Option)” on page 3–7.

CHECK-OUT

Qualified Service Technicians will have the Installation Checkout Sheet for the 1900 Series Feeder Bottle Fillers. The Service Technician will verify the unit is operating correctly before leaving the installation site.

TECHNICAL DATA

SERVICE REQUIREMENTS

Utilities and services are furnished by others in accordance with the official drawings for your unit. The utilities are to be supplied with manual shut off valves, electrical services are to be supplied with fused disconnect switches, and all exhaust ducts are to be supplied with manual dampers. For utility requirements, refer to the certified specification document.

Section 7 Options

INTRODUCTION

The1975 Series Feeder Bottle Fillers offer numerous options to meet each customer's specific needs. This chapter lists the most commonly selected options. Your bottle filler may not have all of the options listed, and could have other specific options. For the options selected with your bottle filler, please see your Customer Manual

MOST COMMON OPTIONS

Water Pressure Reducing Station

Provided in the inlet of the house tap water line is a pressure reducing station that stabilizes the incoming water pressure, delivering an even filling rate to the machine.

Bottle Filling Proportioner System

A complete system is provided to accurately mix a treatment solution into the drinking water for the purpose of chlorination, acidification, or medication of the drinking water. The system consists of a water reservoir, a treatment solution reservoir, a mixing chamber, water and treatment solution pumps and valves, and an automatic control system.

NOTE

The stainless steel components option must be selected if acidified drinking water is to be used.

Water Pressure Gauges

Provided on the water lines are pressure gauges to monitor the facility utilities.

Freight to Job Site

Getinge Castle will be responsible for the freight charges required to deliver the equipment to the customers facility. Otherwise the freight will be prepaid and added to the purchase price of the equipment.

Stainless Steel Type 304 Components

The filling head, jets, and piping are provided in type 304 stainless steel construction. For use with acidified drinking water.

Stainless Steel Type 316L Components

The filler head, jets, and piping are provided in type 316L stainless steel construction. For use with acidified drinking water.

pH Monitor System

A pH analyzer with an LED readout, a front panel keyboard, and a pH probe are provided for acidification applications. The monitoring include: two (2) adjustable alarm setpoints, two (2) alarm contacts, an analog output, and temperature measurement with automatic temperature compensation.

Selectable Head Filling

The control system can be provided with the ability to fill one (1), two (2), three (3), or four (4) baskets at a time. The operator selects the number of baskets on the cart prior to positioning the cart in the filling position. Each header is regulated by a pressure regulator to ensure consistent filling between loads.

Selectable Filling Water Types

The control system can be provided with the ability to fill with different types of water. One load, if selected, can be filled with fresh house water and the other with treated or processed water. The operator selects the type of water prior to positioning the cart in the filling position.

Selectable Bottle Types

The control system can be provided with the ability to fill different size bottles. One load, if selected, can fill eight (8) ounce bottles and another load can fill sixteen (16) ounce bottles. The operator selects the bottle size prior to positioning the cart in the filling position

Index

A
Accessory 1–3
B
Bottle Types, Selectable 7–2
C
Components
  Stainless Steel, Type 304 7–2
  Stainless Steel, Type 316L 7–2
Construction 1–2
  Stainless Steel 1–3
Consumable Stock 4–3
Control Panel 1–3, 2–2
Cycle Programming 2–3
E
Electrical Control System
  Construction 1–2
Electro-Mechanical Controls
  Control Panel 2–2
  Switches 2–2
F
Filling Head System 1–3
Filling Water Types, Selectable 7–2
H
Head Filling, Selectable 7–2
I
Indicator, Power 2–3
Installation
  Electrical 6–2
  Equipment Location 6–2
  Utilities 6–2
Installation Instructions 6–1
Instructions, Operating 3–7
Interchangeable Header 1–4
L
Lustre Stainless Steel Cleaner/Polish 4–3
M
Maintenance Schedule-Standard 4–1
Manual Operating Valve 1–3
Model
  1975 (4X6) 1–2
  1975 (5X5) 1–2
Monitor System, pH 7–2
O
Operating Instructions
  Ready Mode 3–7
  Stand-By Mode 3–7
Optional Features 1–3
Optional Standards and Codes 1–2
P
Performance Assurance Plan 4–1
Pressure Gauges, Water 7–2
Processing System
  Construction 1–2
Proportioner, Bottle Filling 7–1
R
Routine Maintenance Schedule
  Daily 4–2
  Every Six Months 4–2
  Every Three Months 4–2
  When Required 4–2
S
Selectable Bottle Types 7–2
Selectable Filling Water Types 7–2
Selectable Head Filling 7–2
Shutting Down the Filler 3–7
Specifications
  1975 (4X6) 1–2
  1975 (5X5) 1–2
  Transport Cart 1–4
Standard Features 1–2
Switches 2–2
  Bottle Size Selector (Option) 2–2
  Cold Water/Processed Water (Option) 2–2
  Header On/Off (#1–#4) 2–2
  On/Off 2–2
  Start 2–2
T
To Adjust Fill Time, Model 1975 3–7
Transport Cart 1–3
Transport Carts, Additional 1–4
W
Water Pressure Gauges 7–2

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